

ADACHI *et al.*, SN 10/669,052
Amdt. filed 4 April 2005
Reply to OA mailed 2 December 2004

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IN THE CLAIMS:

1-20. (Canceled)

21. (Previously Presented) A transmission type screen comprising:

a light distribution control element including a transparent base member, a number of micro-lenses densely arranged on one face of the transparent base member and a light absorbing layer having very small opening portions substantially at focal positions of the micro-lenses, the transparent base member being constituted of a transparent body which is substantially isotropic optically or a transparent body having uniaxial optical anisotropy.

22. (Previously Presented) A transmission type screen as claimed in claim 21, wherein the transparent base member is at least one of: a glass plate; an acrylic resin transparent plate; and a transparent film made of at least one of: a polycarbonate resin, a vinyl chloride resin, a polyester-based resin, a cellulose-based resin, a polyvinyl alcohol resin and a polyolefin resin.

23. (Previously Presented) A transmission type screen as claimed in claim 21, comprising the transparent base member being constituted of the transparent body having uniaxial optical anisotropy having an optical axis in a direction in parallel with a face of the transparent base member.

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24. (Previously Presented) A transmission type screen as claimed in claim 21, comprising a non-transparent layer provided between ones of the micro-lenses to absorb any light which attempts transmission in areas between the micro-lenses.

25. (Previously Presented) A transmission type screen as claimed in claim 21, comprising ones of the micro-lenses having refractive indices in a range of one of: 1.6 through 2.1; and, 1.9 through 2.1.

26. (Previously Presented) A transmission type screen as claimed in claim 21, comprising ones of the micro-lenses having refractive indices differing from one another.

27. (Previously Presented) A transmission type screen as claimed in claim 21, comprising ones of the micro-lenses being a transparent bead adhered to the transparent base member.

28. (Previously Presented) A transmission type screen as claimed in claim 27, comprising ones of transparent beads having a diameter equal to, or smaller than, a half of a pixel pitch.

29. (Previously Presented) A transmission type screen as claimed in claim 27, comprising ones of transparent beads having 50-80% of a body thereof exposed to a light incident side of the transmission type screen.

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30. (Previously Presented) A display comprising:

a light source; and

a transmission type screen including:

a light distribution control element including a transparent base member, a number of micro-lenses densely arranged on one face of the transparent base member and a light absorbing layer having very small opening portions substantially at focal positions of the micro-lenses, the transparent base member being constituted of a transparent body which is substantially isotropic optically or a transparent body having uniaxial optical anisotropy.

31. (Previously Presented) A display as claimed in claim 30, wherein the transparent base member is at least one of: a glass plate; an acrylic resin transparent plate; and a transparent film made of at least one of: a polycarbonate resin, a vinyl chloride resin, a polyester-based resin, a cellulose-based resin, a polyvinyl alcohol resin and a polyolefin resin.

32. (Previously Presented) A display as claimed in claim 30, comprising the transparent base member being constituted of the transparent body having uniaxial optical anisotropy having an optical axis in a direction in parallel with a face of the transparent base member.

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33. (Previously Presented) A display as claimed in claim 30, comprising a non-transparent layer provided between ones of the micro-lenses to absorb any light which attempts transmission in areas between the micro-lenses.

34. (Previously Presented) A display as claimed in claim 30, comprising ones of the micro-lenses having refractive indices in a range of one of: 1.6 through 2.1; and, 1.9 through 2.1.

35. (Previously Presented) A display as claimed in claim 30, comprising ones of the micro-lenses having refractive indices differing from one another.

36. (Previously Presented) A display as claimed in claim 30, comprising ones of the micro-lenses being a transparent bead adhered to the transparent base member.

37. (Previously Presented) A display as claimed in claim 36, comprising ones of transparent beads having a diameter equal to, or smaller than, a half of a pixel pitch.

38. (Previously Presented) A display as claimed in claim 36, comprising ones of transparent beads having 50-80% of a body thereof exposed to a light incident side of the transmission type screen.

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39. (New) A transmission type screen as claimed in claim 21, wherein the variation in phase difference produced by the difference in progressing angle of light progressing in said transparent base member after passing through said micro-lenses is equal to or smaller than a half wavelength.

40. (New) A transmission type screen as claimed in claim 21, wherein said micro-lenses are shaped in a rod.

41. (New) A transmission type screen as claimed in claim 21, wherein said micro-lenses are shaped in a sphere.

42. (New) A display as claimed in claim 30, wherein the variation in phase difference produced by the difference in progressing angle of light progressing in said transparent base member after passing through said micro-lenses is equal to or smaller than a half wavelength.

43. (New) A display as claimed in claim 30, comprising plural optical switch elements for modulating lights from said light source into optical image lights according to incident image information, said optical image lights being polarized lights,

wherein polarized states of said plural polarized lights modulated by said plural optical switch elements are substantially coincide with each other when said optical image lights are projected onto said transmission type screen.

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44. (New) A display as claimed in claim 43, wherein the polarized state of each of said plural polarized lights is circular polarization when projected onto said transmission type screen.

45. (New) A display as claimed in claim 43, wherein the polarized state of each of said plural polarized lights is elliptic polarization when projected onto said transmission type screen.

46. (New) A display as claimed in claim 43, wherein the polarized state of each of said polarized lights is linear polarization when projected onto said transmission type screen.